

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/840,722	04/23/2001	Michael C. MacLeod	UTSC:607USC1	5071		
75	7590 09/12/2006			EXAMINER		
David L. Parker FULBRIGHT & JAWORSKI, L.L.P.			LU, FRANK WEI MIN			
Suite 2400			ART UNIT	PAPER NUMBER		
600 Congress Avenue			1634			
Austin, TX 78	8701		DATE MAILED: 09/12/2006	5		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	Applicant(s)			
Office Action Summary		09/840,722	MACLEOD ET AL.	MACLEOD ET AL.			
		Examiner	Art Unit				
		Frank W Lu	1634				
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet with	the correspondence add	dress			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by state the treply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a rept eply within the statutory minimum of thirty (3 bd will apply and will expire SIX (6) MONTH ute, cause the application to become ABAN	y be timely filed 30) days will be considered timely S from the mailing date of this co IDONED (35 U.S.C. § 133).				
Status							
1) 🔀	Responsive to communication(s) filed on 20	June 2006.					
2a)□		nis action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)⊠ 6)□ 7)□							
Applicat	ion Papers						
9)⊠ The specification is objected to by the Examiner.							
10)⊠	D)⊠ The drawing(s) filed on <u>23 April 2001</u> is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)[Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a life	ents have been received. Ints have been received in Appriority documents have been releau (PCT Rule 17.2(a)).	olication No ceived in this National	Stage			
Attachmen	• •		(DTO 140)				
2) Notice (3) Information	ee of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 rr No(s)/Mail Date		Mail Date. <u>8/24/2006</u> . rmal Patent Application (PTO	- 152)			

Application/Control Number: 09/840,722 Page 2

Art Unit: 1634

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: (1) There are several nucleotide sequences with more than 10 nucleotides in Figure 4. However, there are no SEQ ID Nos for these nucleotide sequences in the Figure 4 or BRIEF DESCRIPTION OF THE DRAWINGS; and (2) there is a nucleotide sequence with more than 10 nucleotides in Figure 8. However, there is no SEQ ID No for this nucleotide sequence in the Figure 8 or BRIEF DESCRIPTION OF THE DRAWINGS and there is no description for sequence locations for this nucleotide sequence.

Appropriate correction is required.

Sequence Rules Compliance

2. There are several nucleotide sequences with more than 10 nucleotides in Figures 4 and 8. However, these nucleotide sequences are not in the sequencing listing submitted on April 23, 2001. Applicant is required to resubmit a new sequencing listing on both paper copy and computer readable form in order to comply with the requirements of 37 CFR 1.821 through 1.825.

Examiner's Amendment

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37

Application/Control Number: 09/840,722

Art Unit: 1634

CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Page 3

Authorization for this examiner's amendment was given in a telephone interview with Mr. David Parker (Reg. No. 32,165) on August 24, 2006.

4. The application has been amended as follows:

In the claims:

Replace "random sequences" in line 16 in ii) of step b) of claim 1 with "random combinations".

- 38. (Currently amended) The method of claim 36, further comprising determining [at least] a [partial] nucleotide sequence of the amplified products.
- 60. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a different cell or tissue.
- 61. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a cancerous cell or tissue.
- 62. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a cell or tissue treated with a pharmaceutical compound.
- 63. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a cell or tissue treated with a teratogenic compound.
- 64. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a cell or tissue treated with a

Application/Control Number: 09/840,722

Art Unit: 1634

carcinogenic compound.

65. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a cell or tissue treated with a toxic compound.

- 66. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a cell or tissue treated with a biological response modifier.
- 67. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a cell or tissue treated with a hormone, a hormone agonist or a hormone antagonist.
- 68. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a cell or tissue treated with a cytokine.
- 69. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or DNA derived from a cell or tissue treated with a growth factor.
- 70. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a normal cell or tissue [and on] or the DNA derived from a cell or tissue treated with the ligand of a known biological receptor.
- 71. (Currently amended) The method of claim 20, [performed on] more than one sample of DNA are used, wherein the DNA samples are derived from a cell or tissue type obtained from different species.

Application/Control Number: 09/840,722

Art Unit: 1634

72. (Currently amended) The method of claim 20, [performed on] more than one sample of DNA are used, wherein the DNA samples are derived from a cell or tissue type obtained from different organisms.

- 73. (Currently amended) The method of claim 20, [performed on] more than one sample of DNA are used, wherein the DNA samples are derived from a cell or tissue at different stages of development.
- 74. (Currently amended) The method of claim 20, [performed on] more than one sample of DNA are used, wherein the DNA samples are derived from a normal cell or tissue and derived from a cell or tissue that is diseased.
- 75. (Currently amended) The method of claim 20, [performed on] more than one sample of DNA are used, wherein the DNA samples are derived from a cell or tissue cultured [in vitro] in vitro under different conditions.
- 76. (Currently amended) The method of claim 20, [performed on] the DNA molecule is derived from a cell or tissue from two organisms of the same species with a known genetic difference.
- 5. The following is an examiner's statement of reasons for allowance:

Claims 3, 4, 20, 21, 23-42, 44-48, 50, 52-76, 85, and 86 are allowable in light of applicant's amendments filed on June 20, 2006, and the examiner's amendments. The closest prior art in the record is Senapathy (US Patent No. 6,521,428 B1, priority date: April 21, 1999). This prior art does not teach that the 5' sequence of primers of said first primer set population is complementary to said first linker sequence and 5' sequence of primers of said second primer set population is complementary to said second linker sequence as recited in claim 20. This prior art

Application/Control Number: 09/840,722 Page 6

Art Unit: 1634

either alone or in combination with the other art in the record does not teach or reasonably suggest a method of subjecting a DNA molecule to a DNA synthesis reaction which comprises all of the limitations recited in claim 20. Note that "a random combinations of A, T, C, and G" in amended claim 20 is considered as all possible combinations of A, T, C, and G.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Papers related to this application may be submitted to Group 1600 by facsimile transmission. Papers should be faxed to Group 1600 via the PTO Fax Center. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CAR § 1.6(d)). The CM Fax Center number is (571)273-8300.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank Lu, Ph.D., whose telephone number is (571)272-0746. The examiner can normally be reached on Monday-Friday from 9 A.M. to 5 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla, can be reached on (571)272-0735.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

September 5, 2006

FRANK LU
PRIMARY EXAMINER

July in